

CLAIMS

What is claimed is:

1. A computer-aided layout design system, for designing a layout image of at least a portion of a layout, comprising:

5 a defect-detecting module, which detects at least one defect of the layout; and
a zoom-lens module, which generates an enlarged image of the defect, and displays the enlarged image simultaneously with the layout image.

2. The computer-aided layout design system of claim 1, wherein:

the layout comprises at least two layers; and
10 the zoom-lens module generates the enlarged image of at least one specific layer among the layers.

3. The computer-aided layout design system of claim 1, wherein:

the zoom-lens module adjusts an enlarge ratio of the enlarged image relative to the layout image automatically.

15 4. The computer-aided layout design system of claim 1, wherein:

the layout has at least two defects; and
the zoom-lens module is able to switch between the defects, and generates the enlarged images of the defects.

5. The computer-aided layout design system of claim 1, further comprising:

20 an information-display module, which displays information with respect to the defect while the enlarged image is displaying.

6. A computer-aided layout design method, comprising:

displaying a layout image of at least a portion of a layout;

detecting at least one defect of the layout; and

generating an enlarged image of the defect, and displaying the enlarged image simultaneously with the layout image.

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7. The computer-aided layout design method of claim 6, wherein:

the layout comprises at least two layers; and

the generating step further generates the enlarged image of at least one specific layer among the layers..

8. The computer-aided layout design method of claim 6, wherein:

the generating step further adjusts an enlarge ratio of the enlarged image relative to the layout image automatically.

9. The computer-aided layout design method of claim 6, wherein:

the layout has at least two defects; and

the generating step further switches between the defects, and generates the enlarged images of the defects respectively.

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10. The computer-aided layout design method of claim 6, further comprising:

displaying information with respect to the defect while the enlarged image is

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displaying.